

Agrisera

This product is for research use only (not for diagnostic or therapeutic use)

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product **AS12 1863**

ABI5 | Abscisic acid insensitive 5 (peptide antibody)

product information

Background | **ABI5 (abscisic acid insensitive 5)** is involved in ABA-regulated gene expression during seed development and subsequent vegetative stage and acts as the major mediator of ABA repression of growth. Binds to the embryo specification element and the ABA-responsive element (ABRE) of the Dc3 gene promoter and to the ABRE of the Em1 and Em6 genes promoters. Alternative names: ABI5, ABA INSENSITIVE 5, GIA1, GROWTH-INSENSITIVITY TO ABA 1, Dc3 promoter-binding factor 1, AtDPBF1, GROWTH-INSENSITIVITY TO ABA 1, bZIP transcription factor 39, AtbZIP39.

Immunogen | KLH-conjugated peptide derived from Arabidopsis thaliana ABI5 sequence, UniProt: [Q9SJN0](#), TAIR: [AT2G36270](#)

Host | Rabbit

Clonality | Polyclonal

Purity | Affinity purified serum in PBS, pH 7.4

Format | Lyophilized

Quantity | 100 µg

Reconstitution | For reconstitution add 100 µl of sterile water to each tube.

Storage | Store lyophilized/reconstituted at -20°C; once reconstituted make aliquots to avoid repeated freeze-thaw cycles. Please, remember to spin tubes briefly prior to opening them to avoid any losses that might occur from lyophilized material adhering to the cap or sides of the tubes.

Tested applications | Immunolocalization (IL), Western blot (WB)

Related products | [AS12 1861](#) | Anti-ABI1 | Abscisic acid insensitive 1, rabbit antibodies
[AS12 1871](#) | Anti-ABI2 | abscisic acid insensitive 2, rabbit antibodies
[AS12 1862](#) | Anti-ABI3 | abscisic acid insensitive 3, rabbit antibodies
[AS19 4272](#) | Anti-ABI5 | Abscisic acid insensitive 5, rabbit antibodies
[AS13 2634](#) | Anti-PYR1 | Abscisic acid receptor RCAR11, rabbit antibodies

[AS13 2635](#) | Anti-SRK2E | Ser/Thr-protein kinase SnRK2.6, rabbit antibodies

[Secondary antibodies](#)

Additional information | MG132 is recommended to be added to extraction buffer as ABI5 is degraded by proteasome as well as homogenization with thiourea and bead beater.

Protocol for protein extraction from seeds can be requested [here](#).

Application information

Recommended dilution | 1: 140 (IL), 1 : 200 (WB)

Expected | apparent MW | 47 kDa

Confirmed reactivity | *Arabidopsis thaliana*

Predicted reactivity | *Brassica napus*, *Populus trichocarpa*

Not reactive in | No confirmed exceptions from predicted reactivity are currently known.

Additional information | ABI5 protein is present in very low levels therefore specific material should be used for analysis as well as chemiluminescence detection reagent in extreme low femtogram range, as [AgriseraECLSuperBright](#).

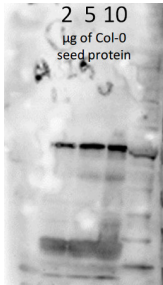
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application example



2, 5 and 10 µg of total protein (run on separate lanes) extracted from the Columbia ecotype (*Arabidopsis thaliana*) seeds using Acetone extraction was separated using the Bolt® Bis-Tris Plus Gel system on a 4-12% gradient SDS-PAGE gel, blotted using the turbo-blot system (BIO-RAD) to transfer onto a PVDF membrane (7min). SNAP-ID (Millipore) system was used for blocking and antibody labeling. Blocking occurred for 30 minutes (no agitation, 0.05 % skim milk in dest. water). Primary antibody labeling was done for 10 minutes at 1:200 dilution. Followed by 3x10 ml washes (PBST). Then blotted with secondary antibody (anti-rabbit IgG HRP conjugated from Agrisera [AS09_602](#)) for 10 min (1:1000 dilution) followed by three washes. Blot was developed using ECL as per manufacturer's instructions. Exposure time was 2 min.

Courtesy of Nay Chi, Pogson Lab, Australia